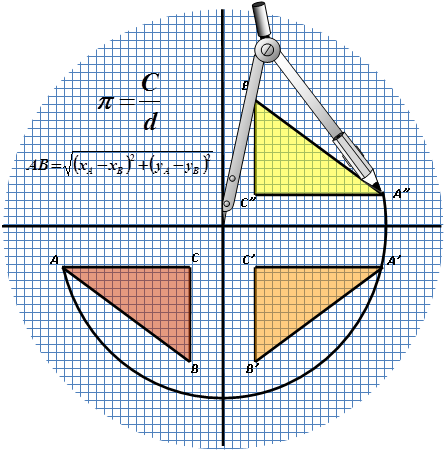
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*Geometry*

Course Syllabus

2016-2017

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**What is this course about?**

Math is about relationships. In geometry, we study the properties of geometrical objects—such as lines, circles, angles and polygons—and the relationships between them. We study these objects, so that we can use them in models that help us to understand the real world around us.

**What will the curriculum look like?**

Our curriculum is aligned with the Common Core State Standards for Mathematics and culminates in the Partnership for Assessment of Readiness for College and Careers (PARCC). What does that mean to you? You may notice some differences in the way you are asked to learn in this course, compared to math classes you have taken before Washington, DC adopted the Common Core State Standards. In particular, you will be asked to take on challenging and meaningful problems that you *have not already been taught to solve* and work—either on your own or as a member of a collaborative team—toward a creative solution. If this makes you uncomfortable at first, be open-minded. You will learn more, and you will develop skills and attitudes that can help you be successful in college and in the workplace.

We will cover eight units:

1. Introduction to Geometry
2. Transformations
3. Angle and Triangles
4. Triangle Congruence and Polygons
5. Similarity
6. Trigonometry
7. Area and Volume
8. Circles

**Course Web Site**

* **Our class Wiki -** The class page is your first stop for resources, including: syllabus, homework, answer keys, course notes, and links to Geometry resources.
* Go to <http://wlpcsupperschool.wikispaces.com> and find “Rapoport” on the left-hand side. You will see separate links for each class section. I highly recommend bookmarking your section so you can check the wiki easily (and daily).
* We will discuss how the wiki is organized but please ask if you are ever unsure about an assignment’s due date.

**Grading Scale**

A 90-100% • B 80 – 89% • C 70 – 79% • D 64 – 69% • F 0 – 63%

**Please note the new upper school policy:** If a student is late, without a valid excuse as determined by the teacher, to an individual class more than 3 times in a quarter, on the 4th time, he/she will automatically lose 5% from his/her quarter grade. If a student is then late another 3 times, on the 8th time, he/she will lose another 5%.

**Method of Evaluation**

Tests: 35%

Projects: 25%

Homework Quizzes: 15%

Homework: 15%

Warm Ups: 10%

The majority of your final grade will reflect how well you have mastered the content in this course, which is based on the Common Core High School Geometry standards.

The **Tests** category includes multiple forms of demonstrating mastery. Examples: traditional paper-and-pencil tests, group tests, individual and group presentations, select exit slips

The **Projects** category will include small and large-scale projects, both in and out of class.

*What is a* ***Homework Quiz****?*

* + Summary: A homework quiz is a weekly quiz that reflects a student’s mastery of the concepts from the past week of homework assignments.
  + Detail:
    - Homework will be checked for completion (5 points per assignment), not accuracy, unless you are given notice otherwise.
    - Your homework assignments will almost always be practice and not a demonstration of mastery. The practice provided by homework benefits you and helps you move toward mastering a concept.
    - How can I do well on a homework quiz? Complete your homework everyday with a true effort. Ask questions and strive to understand when we review assignments in class. If you are feeling stuck, come to tutorial or a lunch appointment!

*Why don’t I have a participation grade?*

* + Summary: Your grade is a reflection of the level to which you have mastered content. Positive participation will help you toward the goal of mastery. Negative or non-participation will veer you off course from that goal.
  + Detail:
    - Although it does not receive an explicit grade, **participation is vital**.
    - What does positive participation look like?
      * Basic: come to class on time, follow directions, complete classwork thoughtfully
      * Contribute to class by: actively listening, sharing questions with the class, sharing explanations with the class
      * Show kindness and respect toward everyone in the room. Act with the good of the class in mind.

*How will my* ***Warm Ups*** *be graded?*

* Summary: Each warm up is worth five points.
* Detail:
* 2 points: started on time (A student with an excused tardy will still be given these points.)
* 2 points: answered each question completely
* 1 point: stayed focused during the entirety of the warm up period

**Re-Test Policy**

* You may retake quizzes for a new score by making an appointment at tutorial or an available lunchtime. This gives me an opportunity to work with you to ensure that you have an improved understanding that will lead to an improved grade.
* Unit tests or other major tests are “game day”. It is not my policy to allow retests, so ask for help early if you need it and come prepared to do your best!

**Required Materials**

* Course folder: Please be sure it is a folder with pockets, dedicated to Geometry only. If you prefer a binder, that is fine as well.
* Notebook paper
* Pencils and erasers
* Calculator. Please bring a scientific calculator with you every day.
* If you have any questions or concerns about supplies, please see Ms. Rapoport.

**Content Resources**

* Check out a Geometry textbook for explanations and practice.
* Khan Academy: <https://www.khanacademy.org/math/geometry>
* Blue Pelican Math (not perfect but helpful): <http://www.bluepelicanmath.com/geometry/pdfs/geo_sem1_absent-studentVersion.pdf#page=24>
* Investigating Geometry Online (two versions):

<http://teachers.henrico.k12.va.us/math/igo/> <http://teachers.henrico.k12.va.us/math/HCPSGeo/index.html>

**Classroom Expectations**

* Be *punctual*
  + Be inside the classroom and ready to begin at the start time.
* Be *prepared*.
  + Arrive to class with your folder/binder, pencil, calculator, and completed homework or other assignments that are due.
* Be *polite*.
  + Be respectful to your fellow classmates.
* Be *positive.*
  + Show that you believe in the abilities of yourself and your classmates to succeed!
* Be *present.*
  + If you miss a class, see me, or the Wiki, promptly to make up missed work.
* Hateful comments and name-calling will not be tolerated. This applies to “joking” as well as serious comments concerning race, gender, sexuality, appearance or other personal qualities that offend or belittle another member of our community.
* Cell phones, iPods, and all other electronic devices (other than calculators) must be turned off/silenced in class.
* When given an in-class assignment, please go to work promptly and do your best.
* Pay attention when I am instructing the class. Please show me that I have your full attention by ending any side conversations and by making occasional eye contact.
* **Help each other! During most classwork assignments, you will be allowed, and encouraged, to work with your classmates. If you feel comfortable completing an assignment, check in on your neighbor and see if he/she could use some help. If you can explain a concept, you are much more likely to retain it!**